

## Claims

1. An illumination light source comprising:

a coherent light source;

beam scan means for scanning light from the coherent light source; and

a correction optical system that corrects a scan angle of a beam scanned by the beam scan means,

wherein:

the beam scan means is formed of a mirror portion and mirror portion oscillation means; and

the mirror portion is driven by the mirror portion oscillation means at or in a vicinity of a primary resonance frequency of the mirror portion.

2. The illumination light source according to Claim 1,

wherein:

the correction optical system is formed of a light collection optical system having third-order spherical aberration.

3. The illumination light source according to Claim 1 or 2, further comprising:

light shield means for shielding, of the light from the coherent light source, light whose scan angle by the beam scan means is at a ratio equal to or larger than a specific ratio

with respect to a maximum scan angle.

4. The illumination light source according to any of Claims 1 through 3, wherein:

a scan rate of light having passed through the correction optical system takes a minimal value at a point at which the scan angle is 0.

5. The illumination light source according to any of Claims 1 through 4, wherein:

a scan rate of light having passed through the correction optical system is 90% or less of a maximum value of the scan rate at a point at which the scan angle is 0.

6. The illumination light source according to any of Claims 2 through 5, wherein:

the light shield means shields the light from the coherent light source for a time that accounts for 30% or less of an operation time.

7. The illumination light source according to Claim 1, wherein:

the correction optical system is formed of a free-form mirror.

8. The illumination light source according to any of Claims 1 through 7, wherein:

the coherent light source is formed of a red coherent light source, a green coherent light source, and a blue coherent light source.

9. The illumination light source according to any of Claims 1 through 8, wherein:

at least the green coherent light source is formed of a second harmonic generator device that generates green light through wavelength conversion of light from a coherent light source having an infrared wavelength.

10. A 2-D image display device comprising:

the illumination light source according to any of Claims 1 through 9; and

a projection optical system that projects light from the illumination light source onto a screen.